

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P894247

Luminaire Tested: 4MB-SC3-LVRA-UNV-CC83-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVRA-UNV-CC83-LOW-4000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 4000K CCT, LO lumen setting
Light Source: -
Ballast/Driver: -

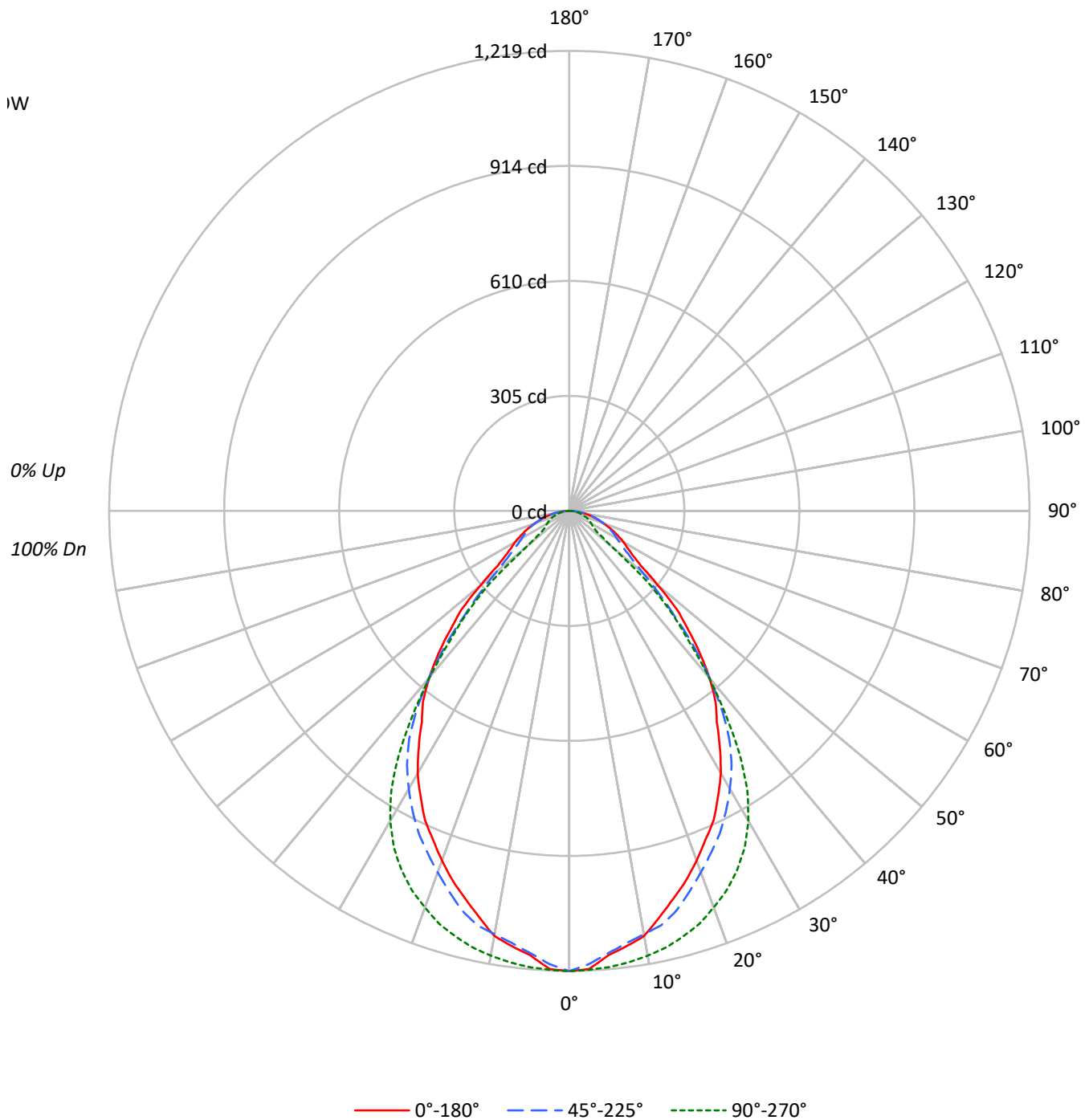
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1979.0 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8676	8676	8676
5°	8442	8403	8666
10°	8262	8226	8646
15°	7836	8077	8598
20°	7465	7717	8467
25°	7101	7404	8250
30°	6597	6989	7790
35°	5915	6423	6832
40°	5359	5371	5342
45°	4481	3969	3871
50°	3385	2794	1583
55°	2545	2234	999
60°	2365	2058	962
65°	2200	2052	963
70°	2014	2014	949
75°	1911	1960	915
80°	1766	1856	938
85°	1543	1616	1029

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4585 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	5.7
10°-20°	310.4	15.7
20°-30°	440.1	22.2
30°-40°	453.4	22.9
40°-50°	316.7	16.0
50°-60°	152.0	7.7
60°-70°	106.6	5.4
70°-80°	66.7	3.4
80°-90°	20.6	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	863.1	43.6
0°-40°	1316.5	66.5
0°-60°	1785.1	90.2
0°-90°	1979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1182	1180	1177	1207	1213	112
15°	1064	1072	1096	1128	1167	300
25°	904	914	943	1007	1051	414
35°	681	700	740	755	787	429
45°	445	456	394	374	385	343
55°	205	195	180	115	80	192
65°	131	122	122	93	57	130
75°	70	68	71	62	33	73
85°	19	19	20	20	13	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1219.4	1219.4	1219.4	1219.4	1219.4
2.5°	1214.7	1210.9	1201.8	1218.4	1217.2
5°	1182.0	1180.4	1176.6	1207.4	1213.4
7.5°	1163.4	1160.3	1155.9	1189.8	1206.5
10°	1143.6	1147.4	1138.6	1169.7	1196.7
12.5°	1102.8	1112.8	1124.8	1149.0	1184.8
15°	1063.8	1071.7	1096.5	1127.9	1167.2
17.5°	1027.4	1036.5	1057.8	1105.0	1146.8
20°	985.9	998.4	1019.2	1079.5	1118.2
22.5°	943.1	954.8	980.8	1045.6	1088.6
25°	904.5	913.6	943.1	1006.9	1050.9
27.5°	853.2	870.2	898.2	959.8	1006.0
30°	803.0	817.4	850.7	902.6	948.2
32.5°	742.3	763.4	800.1	839.7	877.8
35°	681.0	699.6	739.5	754.9	786.6
37.5°	636.4	641.4	664.1	662.2	680.1
40°	577.0	587.1	578.3	554.7	575.1
42.5°	512.9	524.8	489.3	462.0	469.2
45°	445.3	455.7	394.4	374.3	384.7
47.5°	386.9	385.9	318.0	304.5	290.1
50°	305.8	315.8	252.4	227.2	143.0
52.5°	238.8	242.6	208.0	145.2	94.0
55°	205.2	195.2	180.1	115.3	80.5
57.5°	182.3	169.7	159.7	107.2	73.5
60°	166.2	152.1	144.6	101.8	67.6
62.5°	148.0	137.0	134.2	97.1	62.2
65°	130.7	122.3	121.9	92.7	57.2
67.5°	113.5	108.7	110.0	87.4	51.5
70°	96.8	95.9	96.8	80.5	45.6
72.5°	82.7	81.7	84.2	71.7	39.0
75°	69.5	68.5	71.3	61.6	33.3
77.5°	55.3	55.9	57.8	51.2	28.0
80°	43.1	43.1	45.3	40.2	22.9
82.5°	30.8	31.1	32.4	29.5	17.9
85°	18.9	18.9	19.8	19.5	12.6
87.5°	6.3	7.2	8.5	9.1	6.3
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.15	14.51	13.52	14.82	15.13	9.49	10.84	9.85	11.15	11.47
	3H	14.89	16.10	15.27	16.43	16.79	11.46	12.67	11.84	13.00	13.36
	4H	15.56	16.69	15.97	17.04	17.42	12.17	13.29	12.57	13.65	14.03
	6H	16.07	17.11	16.48	17.48	17.87	12.69	13.73	13.10	14.10	14.49
	8H	16.24	17.23	16.67	17.62	18.02	12.87	13.86	13.30	14.25	14.65
	12H	16.35	17.29	16.78	17.68	18.11	13.01	13.96	13.45	14.34	14.77
4H	2H	13.68	14.81	14.09	15.16	15.54	11.11	12.23	11.51	12.59	12.97
	3H	15.66	16.59	16.07	16.99	17.40	13.29	14.22	13.70	14.62	15.02
	4H	16.46	17.30	16.90	17.72	18.16	14.17	15.00	14.60	15.42	15.86
	6H	17.11	17.83	17.57	18.28	18.74	14.81	15.53	15.27	15.98	16.44
	8H	17.33	18.00	17.79	18.45	18.92	15.02	15.69	15.48	16.14	16.61
	12H	17.48	18.08	17.97	18.56	19.04	15.17	15.77	15.66	16.26	16.73
8H	4H	16.75	17.42	17.21	17.87	18.34	14.81	15.49	15.28	15.94	16.41
	6H	17.53	18.09	18.03	18.58	19.06	15.68	16.23	16.18	16.73	17.21
	8H	17.83	18.33	18.35	18.85	19.34	16.00	16.50	16.52	17.02	17.51
	12H	18.07	18.51	18.58	19.00	19.57	16.27	16.71	16.78	17.20	17.77
12H	4H	16.76	17.36	17.25	17.85	18.32	14.89	15.49	15.37	15.97	16.44
	6H	17.58	18.08	18.10	18.60	19.09	15.81	16.31	16.33	16.83	17.32
	8H	17.95	18.39	18.46	18.88	19.45	16.23	16.67	16.74	17.16	17.73